

1 49070/MJM/S965

ABSTRACT OF THE DISCLOSURE

5 An optical subassembly (OSA) with optically aligned components including a microelectromechanical structure (MEMS) is formed to include alignment tolerances obtainable with a jig. The jig includes a jig clamp and a jig stencil and allows for the optical components of the OSA to be optically
10 aligned to one another using passive alignment. The jig stencil includes openings that receive the optical components and are bounded and defined by an edge including a retractable portion. The retractable portions urge the optical components into position. Once the optical components are fixed in
15 position by soldering, the retractable portions allow for the jig stencil to move relative to the fixed components to avoid jamming and misalignment of the OSA components during cooling. The MEMS may then be adjusted to maximize the optical power directed from the light source, through the optical
20 components, and into a single mode optical fiber or other optical transmission medium.

MJM/dlf

DLF PAS513513.2--*-07/29/03 9:59 AM

25

30

35